

09814436\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09814436 on November 01, 2002

Original Classifications

2 324/537  
2 361/93.9  
2 385/24

Cross-Reference Classifications

3 361/111  
2 361/63  
2 370/376  
2 385/73

Combined Classifications

3 361/111  
3 361/63  
3 361/93.9  
2 324/537  
2 342/368  
2 370/376  
2 370/535  
2 385/24  
2 385/73

PLUS  
Report

09814436\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09814436 on November 01, 2002

3 361/111 (0 OR, 3 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/111 .Transient responsive

3 361/63 (1 OR, 2 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/62 .Feeder protection in distribution networks  
361/63 ..With current responsive fault sensor

3 361/93.9 (2 OR, 1 XR)  
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
  
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES  
361/93.1 .With specific current responsive fault sensor  
  
361/93.9 ..Current limiting

2 324/537 (2 OR, 0 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/500 FAULT DETECTING IN ELECTRIC CIRCUITS AND OF  
ELECTRIC COMPONENTS  
324/537 .Of individual circuit component or element

2 342/368 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/368 .Including a steerable array

2 370/376 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/351 PATHFINDING OR ROUTING  
370/357 .Through a circuit switch  
370/360 ..Switching control  
370/375 ...Time switch, per se (e.g., T or T-T)  
370/376 ....Time slot interchange, per se

2 370/535 (1 OR, 1 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS

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370/473 ..Transmission of a single message having  
multiple packets

370/498 .Combining or distributing information via tim  
e  
channels

370/535 ..Multiplexing combined with demultiplexing

2 385/24 (2 OR, 0 XR)  
Class 385 : OPTICAL WAVEGUIDES  
385/15 WITH OPTICAL COUPLER  
385/24 .Plural (e.g., data bus)

2 385/73 (0 OR, 2 XR)  
Class 385 : OPTICAL WAVEGUIDES  
385/53 WITH DISENGAGABLE MECHANICAL CONNECTOR  
385/55 .Structure surrounding optical fiber-to-fiber  
connection  
385/73 ..With additional optical element between  
facing fiber ends

09814436\_QUAL

6195082 63  
6255806 63  
6434283 61  
5508941 60  
4916408 58  
5504414 58  
6127847 56  
5495484 55  
5448389 55  
6009076 55  
4389577 54  
5418728 54  
6081839 54  
5745065 53  
5963094 53  
6031485 53  
4922257 52  
5021622 52  
6005193 52  
6090305 52  
6099265 52  
6405107 52  
5452307 52  
5757806 52  
6124821 52  
5666453 51  
6007211 51  
6269645 51  
4879595 51  
6243308 51  
5822090 50  
6282683 50  
5689594 50  
5926590 50  
3803385 49  
4399442 49  
4885557 49  
5013981 49  
5180999 49  
5328149 49  
5402072 49  
5621327 49  
5770982 49  
6021076 49  
6229390 49  
5586117 49  
5706157 49  
6016337 49

09814436\_QUAL

6215633 49  
6215633 49

competitor  
From: Erich W. Gunther [mailto:erich@electrotek.com]  
Sent: Wednesday, May 09, 2001 3:36 PM  
To: 'Brad Forth@pml.com'  
Subject: Internet Enabled Metering

inventor added to app.  
by petition.

Dear Brad,

It has been a while since we spoke - at a conference somewhere I think - and even longer by e-mail - I hope all is well. I am writing you today to bring your attention to an issue that has a few peoples feathers ruffled. I ordinarily wouldn't mention this to a competitor, but our company and I personally have great respect for yourself and PML, your products and professionalism and so I feel that I can be open with you. This is something we cannot say about other power monitoring companies with three letter acronym names that start with R.

~~The issue is with your advertising that PML has the first and only full Internet enabled meter. WPT believes that they hold that claim.~~ The WPT developer staff is the most peeved at this and so I told them I would write you this note. If I am wrong, so be it, but I at least wanted to provide you with the timeline for the Internet products we put on the market so that you can make an honest evaluation of your claims. We had to document this timeline in detail recently to deal with patent related issues.

The first Internet enabled meter from WPT was developed as part of a DOE grant I received to develop such a system in 1995. The meter was developed in 1996 and available commercially in 1997. The DOE report describing the system was published in 1997. Meters were deployed in 1996 at the R.R Donnelly plant and a substation in Glasgow Kentucky and had a full time Internet connection using the City of Glasgow's cable modem service (one of the first cities in the nation to deploy such a system). The meter was demonstrated along with a paper presentation at the 1996 IEEE T&D show and many subsequent conferences. In 1996, TVA and EPRI commissioned a system based upon the DOE work and in 1997 TVA purchased the first 50 of the commercially available InfoNodes and DataNodes. Initially, the DOE and TVA versions had only web capability for setup and visualization of historical and real-time data. Since it's inception, the InfoNode and DataNode have used XML as the means for setting up and communicating commands/responses to/from the instruments. Initially this was simply structured HTML of our own design but when XML was coined to represent such implementations, we adopted the standard headers and semantics immediately. In 1998, the system was extended to support notification of the Electrotek NodeCenter Enterprise Management Software, individuals or external systems by pager, contact closure and e-mail. The first year of operating experience using these meters was presented at the EPRI PQA conference in 1999 and many conferences thereafter.

Since the initial commercial introduction in 1997, many hundreds of these systems have been deployed on the Internet and private Intranets. Most of these systems integrate with Electrotek's web based Enterprise Management software - WebPASS, WebPES, and PQWeb and/or are managed by Electrotek's powermonitoring.com service. The first of these enterprise applications went on-line at Con Edison in 1995. New flavors of DataNode are being released each year and we support third party DataNodes in the system including meters from GE, Satec, Square D, Advantec and others.

If you guys had Internet enabled products shipping before WPT, congratulations - we both saw the opportunity early on and at least I can tell my staff that I informed you of our product development history.

Have strike from 1449 but  
make of record in the action

Apparently, the Dranetz developers take exception to a number of the other "firsts" claims on your web site but I can only speak from personal experience on the Internet metering project and my staff.

Thanks for your time and best wishes.  
Erich W. Gunther  
Vice President of Technology Development  
Electrotek Concepts  
WPT